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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,521	01/03/2006	Joao Martinho Coata	0199-95831	1033
24628	7590	03/03/2009		
Husch Blackwell Sanders, LLP			EXAMINER	
Husch Blackwell Sanders LLP			ODOM, CURTIS B	
120 S RIVERSIDE PLAZA				
22ND FLOOR			ART UNIT	PAPER NUMBER
CHICAGO, IL 60606			2611	
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			03/03/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/563,521	Applicant(s) COATA, JOAO MARTINHO
	Examiner CURTIS B. ODOM	Art Unit 2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 03 January 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 1/3/06 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/DS/02) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. The drawings are objected to because all reference labels are suggested to be in English (see Fig. 4A). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

2. Claim 3 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only (Claim 3 refers to both claims 1 and 2, but not in the alternative). See MPEP § 608.01(n). Accordingly, the claim has not been further treated on the merits.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-3 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Pirani (U. S. Patent No. 4, 365, 327).

Regarding claim 1, Pirani discloses wireless telephone equipment (Fig. 1), characterized for being composed of base and portable (handset), being that both use transmitters (ST) and receivers (SR), see column 3, lines 3-20, with the "Spectral Spread in Sampled Voice" concept (wherein audio/voice signals as described in column 3, lines 11-20 are spread using pseudorandom (PN) sequences (see column 3, lines 29-43) and sampled as described in column 3, line 60-column 4, line 2), allow reduction in battery consumption (by removing A/D and D/A conversion (see column 1, lines 39-53) and discard the need to operate in distinct bands for transmission and reception (by spreading the signal using the PN pulse sequence, see also column 1, lines 6-11) in relation to wireless telephone using spectral spread in analog voice, wherein the circuit as shown in Fig. 1 does not contain any converters, level quantifier circuits or echo cancelling circuits (allowing for reduction in costs and raw materials costs reduction).

Regarding claim 1, Pirani discloses a transmitter (ST of Fig. 1) which allows its application in any transmission equipment of analog signals by radio (see column 3, lines 3-11), and that consists of sampling the signal to be transmitted through Sample-and-Hold (CT) as

described in column 3, lines 28-42 and lines column 3, line 60-column 4, line 2), limiting the duration of each sample to the transmission pulse period (see column 3, line 60-column 4, line 2) and making them modulate in one carrier frequency (f) during the transmission pulse, which is simultaneously modulated in phase by PN sequence (see column 3, lines 28-42) that promotes spectral spread of transmitted signal in direct sequence, which presents delay in hundreds of micro-seconds, quite shorter than that caused by transmitters that digitize voice (wherein the delay is shorter since the conversions have been eliminated) , and therefore allowing the manufacturing of wireless phones (see column 3, lines 12-20) and PABX without echo canceling circuits (as shown in Fig. 1) and eliminating the need for duplexers and two distinct bands for transmission/reception in a given equipment as shown in Fig. 1 and described in column 3, lines 12-20, wherein transmission can be provided in a reverse direction without two distinct bands, and which shall operate in sync with the receiver under the concept of "Spectral Spread in Sampled Voice" as described in the rejection of claim 1, and that in conjunction with the "Spectral Spread in Sampled Voice" enables greater communication range and allowing greater power for equipment using the spectral spread transmission as described in column 3, line 28-42.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CURTIS B. ODOM whose telephone number is (571)272-3046. The examiner can normally be reached on Monday- Friday, 9-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on 571-272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Curtis B. Odom/
Primary Examiner, Art Unit 2611
February 27, 2009